

IN THE CLAIMS

1). (Currently Amended) A hollow fiber membrane made of a perfluorinated thermoplastic polymer having hydrophobic surfaces comprising a skinned surface on one diameter and a porous surface on the opposite diameter.

2). (Original) The membrane of Claim 1 wherein the skinned surface is non-porous.

3). (Original) The membrane of Claim 1 wherein the skinned surface is porous with an average pore size range of from about 2 nanometers to about 50 nanometers.

4). (Original) The membrane of Claim 1 wherein the membrane is an ultrafiltration membrane.

5). (Currently Amended) A hollow fiber ultrafiltration membrane made of perfluorinated thermoplastic polymer having hydrophobic surfaces comprising a skinned surface on one diameter and a porous surface on the opposite diameter capable of retaining macromolecular species dissolved in the class consisting of organic solvents, mixtures of organic solvents, organic solvent/water mixtures, mixtures of organic solvents/water mixtures, and water, wherein the members of the class may have other species dissolved therein.

6). (Original) The membrane of Claim 5 wherein the membrane has a molecular weight cutoff of less than 500,000 Daltons.

7). (Original) The membrane of Claim 6 wherein the membrane has a molecular weight cutoff of less than 100,000 Daltons.

8). (Original) The membrane of Claim 7 wherein the membrane has a molecular weight cutoff of less than 50,000 Daltons.

9). (Original) The membrane of Claim 8 wherein the membrane has a molecular weight cutoff of less than 10,000 Daltons.

10). (Currently Amended) A hollow fiber membrane contactor comprising a hollow fiber membrane made of a perfluorinated thermoplastic polymer having hydrophobic surfaces comprising a skinned surface on one diameter, and a porous surface on the opposite diameter.

11). (Original) The membrane of Claim 10, wherein the skinned surface is non-porous.

12). (Original) The membrane of Claim 10, wherein the skinned surface has a porous surface with an average pore size range of from about 2 nanometers to about 50 nanometers.

13). (Currently Amended) A hollow fiber contactor membrane made of perfluorinated thermoplastic polymer having hydrophobic surfaces comprising a skinned surface on one diameter and a porous surface on the opposite diameter capable of liquid-gas mass transfer with a Sherwood number equal to about 1.64 times the Graetz number to the 0.33 power in a range of Graetz numbers of from about 5 to about 1000.

14). (Currently Amended) A hollow fiber contactor membrane made of perfluorinated thermoplastic polymers having hydrophobic surfaces comprising a skinned surface on one diameter and a porous surface on the opposite diameter

capable of liquid-gas mass transfer with liquids having surface tension values of greater than about 20 mN/m.

15). (Currently Amended) A hollow fiber contactor membrane made of perfluorinated thermoplastic polymers having hydrophobic surfaces comprising a skinned surface on one diameter and a porous surface on the opposite diameter capable of liquid-gas mass transfer having an intrusion pressure of greater than about 50 psi with isopropyl alcohol.

16). (Original) The membrane of Claim 15 having an intrusion pressure of greater than about 10 psi with isopropyl alcohol.

17). (Original) The membrane of any one of Claims 1, 5, 10, 13, 14 and 15 wherein said perfluorinated thermoplastic polymer is selected from the group consisting of poly(tetrafluoroethylene-co-perfluoro(alkylvinylether)), poly(tetrafluoroethylene-co-hexafluoropropylene), and blends thereof.

18). (Original) The membrane of Claim 17 wherein the alkyl of said poly(tetrafluoroethylene-co-perfluoro(alkylvinylether)) is selected from the group consisting of propyl, methyl, and blends of methyl and propyl.

19). (Canceled)

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